

What is claimed is:

1. An image coding-decoding method comprising the steps of:

performing a multiresolution transformation process  
5 on an image signal to obtain multiresolution transformed signals;

performing a coefficient transformation process,  
which corresponds to a desired image processing, on said  
multiresolution transformed signals to obtain processed  
transformed signals which carry a processed image subjected to  
10 said desired image processing;

performing a coding process on said processed  
transformed signals to obtain processed coded data which carries  
said processed image; and

decoding said processed coded data and further  
15 performing an inverse multiresolution transformation process,  
to obtain a processed image signal which carries said processed  
image.

2. An image coding-decoding method comprising the steps of:

20 performing a multiresolution transformation process  
on an image signal to obtain multiresolution transformed signals;

performing a coding process on said multiresolution  
transformed signals to obtain coded data;

decoding said coded data to obtain decoded transformed  
25 signals;

performing a coefficient transformation process,

which corresponds to a desired image processing, on said decoded transformed signals to obtain processed transformed signals which carry a processed image subjected to said desired image processing; and

5 performing an inverse multiresolution transformation process on said processed transformed signals to obtain a processed image signal which carries said processed image.

3. An image coding-decoding system comprising:

10 multiresolution transformation means for performing a multiresolution transformation process on an image signal to obtain multiresolution transformed signals;

15 coefficient transformation means for performing a coefficient transformation process, which corresponds to a desired image processing, on said multiresolution transformed signals to obtain processed transformed signals which carry a processed image subjected to said desired image processing;

coding means for performing a coding process on said processed transformed signals to obtain processed coded data which carries said processed image;

20 decoding means for decoding said processed coded data; and

25 inverse multiresolution transformation means for performing an inverse multiresolution transformation process on said processed transformed signals to obtain processed image signals which carry said processed image.

4. An image coding-decoding system comprising:

multiresolution transformation means for performing a multiresolution transformation process on an image signal to obtain multiresolution transformed signals;

coding means for performing a coding process on said multiresolution transformed signals to obtain coded data;

decoding means for decoding said coded data to obtain decoded transformed signals;

coefficient transformation means for performing a coefficient transformation process, which corresponds to a desired image processing, on said decoded transformed signals to obtain processed transformed signals which carry a processed image subjected to said desired image processing; and

inverse multiresolution transformation means for performing an inverse multiresolution transformation process on said processed transformed signals to obtain processed image signals which carry said processed image.

5. An image coder comprising:

multiresolution transformation means for performing a multiresolution transformation process on an image signal to obtain multiresolution transformed signals;

coefficient transformation means for performing a coefficient transformation process, which corresponds to a desired image processing, on said multiresolution transformed signals to obtain processed transformed signals which carry a processed image subjected to said desired image processing; and

coding means for performing a coding process on said

processed transformed signals to obtain processed coded data which carries said processed image.

6. An image decoder comprising:

5 decoding means for decoding coded data to obtain decoded transformed signals;

10 coefficient transformation means for performing a coefficient transformation process, which corresponds to a desired image processing, on said decoded transformed signals to obtain processed transformed signals which carry a processed image subjected to said desired image processing; and

inverse multiresolution transformation means for performing an inverse multiresolution transformation process on said processed transformed signals to obtain a processed image signal which carries said processed image.

15 7. A computer readable storage medium recording a program for making a computer execute an image coding-decoding method, the program having:

20 a procedure of performing a multiresolution transformation process on an image signal to obtain multiresolution transformed signals;

a procedure of performing a coefficient transformation process, which corresponds to a desired image processing, on said multiresolution transformed signals to obtain processed transformed signals which carry a processed image subjected to said desired image processing;

a procedure of performing a coding process on said

processed transformed signals to obtain processed coded data which carries said processed image; and

a procedure of decoding said processed coded data and further performing an inverse multiresolution transformation process, to obtain a processed image signal which carries said processed image.

8. A computer readable storage medium recording a program for making a computer execute an image coding-decoding method, the program having:

a procedure of performing a multiresolution transformation process on an image signal to obtain multiresolution transformed signals;

a procedure of performing a coding process on said multiresolution transformed signals to obtain coded data;

a procedure of decoding said coded data to obtain decoded transformed signals;

a procedure of performing a coefficient transformation process, which corresponds to a desired image processing, on said decoded transformed signals to obtain processed transformed signals which carry a processed image subjected to said desired image processing; and

a procedure of performing an inverse multiresolution transformation process on said processed transformed signals to obtain a processed image signal which carries said processed image.